



CAPITAL DEVELOPMENT COMMITTEE

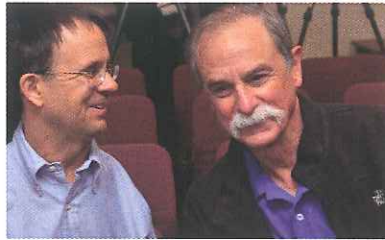
Philip P. DiStefano, Chancellor



University of Colorado **Boulder**

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CU-BOULDER CAMPUS OVERVIEW

CU-Boulder is the only member of the prestigious Association of American Universities in the Rocky Mountain region and leads all Colorado public universities in graduation rate. It is home to nine schools and colleges, granting more than 7,500 degrees annually. It has 11 research institutes—many that partner with Colorado’s federal labs, and 90 research centers. CU-Boulder has 125,000 alumni living in Colorado and 270,000 alumni worldwide.

Enrollment

29,772

degree-seeking students
in 2014

Faculty Head Count

1,501 academic faculty in 2014

1,984 research faculty in 2014

5 Nobel Prize winners

8 MacArthur “genius grant” fellows

Operating Revenue

\$1.35 billion

4.7% state-appropriated funds

Technology Transfer

82 companies formed based on CU-Boulder technologies since 1994; **65** still in operation

Student Diversity

(domestic persons of color)

20.2% of student enrollment
in 2014

25% of freshman students
in 2014

45% increase from 2004

International Students

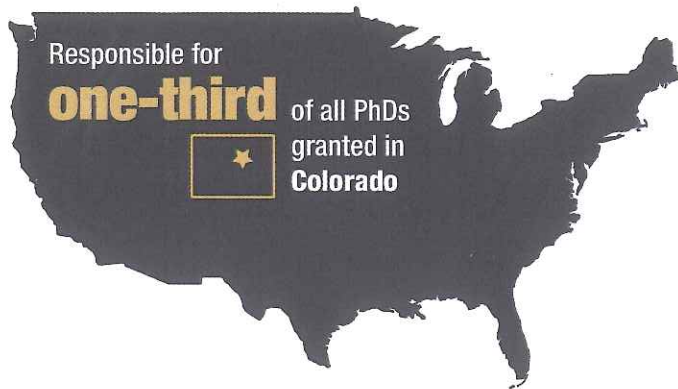
2,512 in 2014

45% increase from
2010

NASA Awards NIH Awards

#1 among public
universities

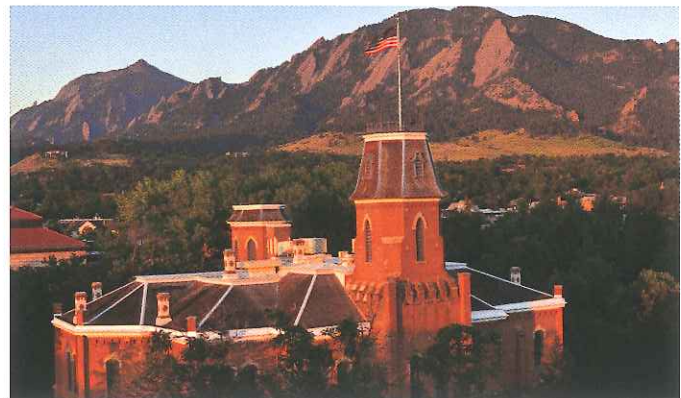
#1 among non-medical
universities



Economic Contributions

- 7,964** employees excluding students
- 15,654** including students
- \$476** million annual payroll*
- \$319** million spent annually by students in Colorado*
- \$58** million spent annually by international students+
- \$16** million spent annually by visitors of students*
- \$342** million spent by the campus for goods and services*
- \$242** million annual capital expenditures*
- \$195** million annual construction expenditures*

* Latest available data—Leeds School of Business, Business Research Division, May 2012
+ NAESA: Association of International Educators, November 2014



Education

- #1** in Colorado for six-year graduation rate (public)—70%
- #1** in the nation since 2006 in atomic, molecular and optical physics*
- #2** in the world in geosciences*
- #9** in aerospace engineering (public)*
- #10** in environmental engineering (public)*
- #12** in chemical engineering (public)*
- #20** in engineering (public)*
- #22** in business (public)*

* U.S. News & World Report, September 2014

Research

- (these funds are restricted and may not support general operations)
- \$412** million total awards in 2014
- +17%** increase from 2013
- \$2.4** billion current research portfolio
- 1,200** undergraduate students participate in research

Existing Program Space

- Total buildings: **398**
- Total assignable square footage: **6,338,480**

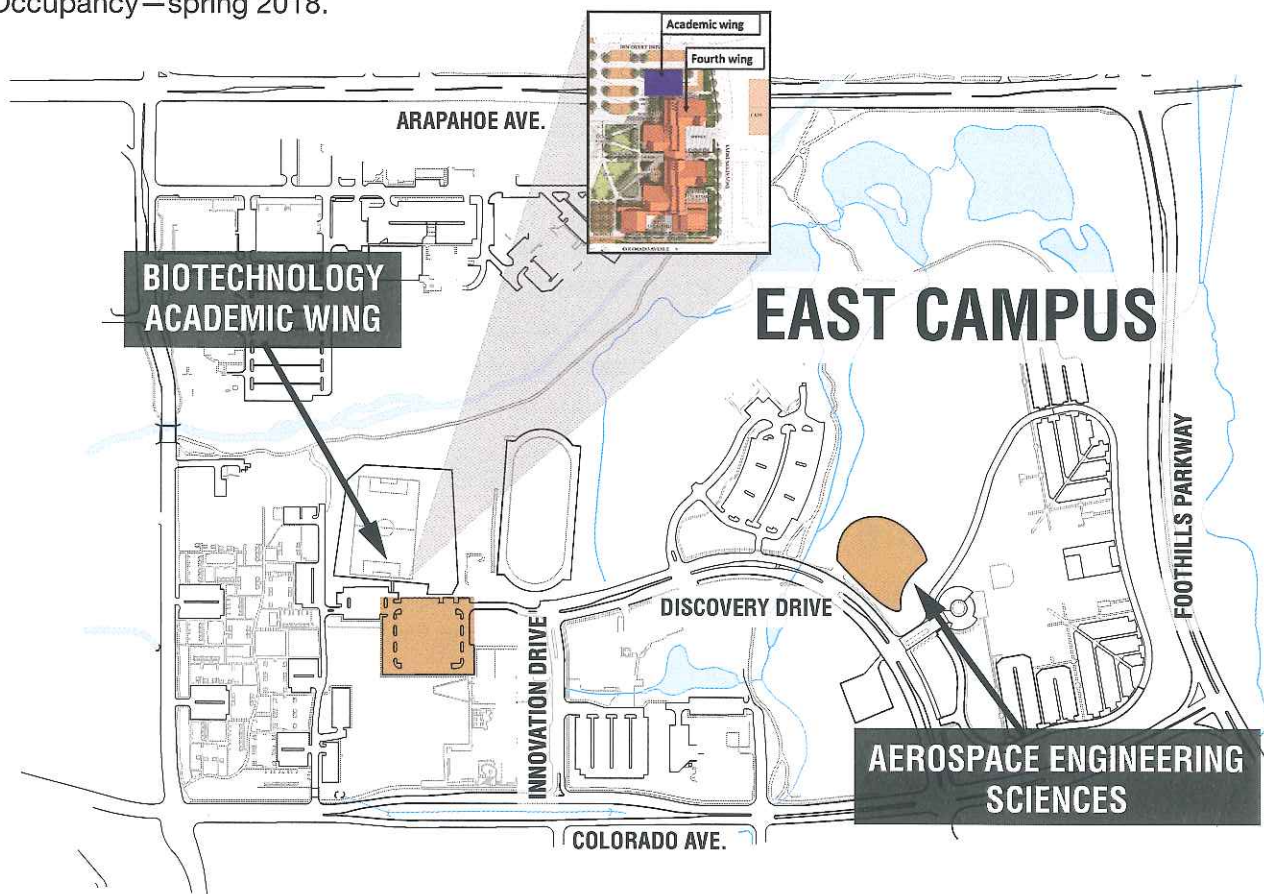
Jennie Smoly Caruthers Biotechnology Building

ACADEMIC WING

- FY 2016 request—\$20,243,179 state + \$8 million cash funds will complete the project.
- FY 2015—Began design of additional educational wing with over \$4 million cash from the campus.
- FY 2014—Received \$6+ million in state funds to support the provision of existing educational space in the initial building nearly complete.
- Additional 57,347 GSF wing will be adjoined to the northwest corner of the Caruthers Biotechnology Building on CU-Boulder’s East Campus.
- Facilities that will be impacted and their corresponding Facilities Condition Index (FCI) figures are as follows: Cristol Chemistry (23 percent), Ekeley Sciences (68 percent), Duane Physics (63 percent), Muenzinger Psychology and Biopsychology (64 percent) and Porter Biosciences (78 percent).
- The academic wing will be used by 4,000 students in 10 majors.
- Undergraduate students will be exposed to leading-edge scientific exploration and innovation, and bear witness to the process of refining commercial applications for technology transfer to the private sector.
- World-class educational opportunities await students in the Discovery Learning Apprentice Program and the Howard Hughes Biological Sciences Undergraduate Research Assistance Program.
- Graduates will have gained highly marketable skills while working side by side with internationally recognized faculty and research teams.
- The preparation of an astute workforce supports the state’s goals to boost the biosciences sector of the Colorado economy.
- Students will benefit from proximity to the BioFrontiers Institute housed in the biotech building.
- BioFrontiers, an interdisciplinary collaboration of leading faculty and researchers from 10 academic departments, led by CU-Boulder Nobel laureate Tom Cech, is dedicated to bioscience advancements and industry partnerships.
- BioFrontiers works directly with the state’s growing biotech industry.
- CU-Boulder biotech research, in which 220 undergraduates currently participate, has led to 11 new startup businesses during the past five years.
- BioFrontiers hosts offices of startup companies in an innovative co-location for unprecedented industry collaboration.
- Occupancy—March 2017.

Aerospace Engineering Sciences Building

- Constructs new 138,500 GSF building for \$75 million.
- Total cost—\$28,290,716 state + \$46,690,335 cash.
- Funding through partnership between the state, university and private sector, building on the existing and growing relationships between the university and industry in the state.
- Transformational facility and equipment will engage students, scientists, engineers, federal partners and computational experts in interdisciplinary collaboration for the advancement of aerospace sciences.
- The Facilities Condition Index (FCI) for the existing Aerospace Engineering Sciences wing is 53 percent.
- State economic sector boasts 400 companies with a \$3.2 billion annual payroll and 170,000 Coloradans employed in aerospace and affiliated industries. These industries are dependent on a steady flow of highly skilled and highly educated new hires—from technicians to BS and MS level aerospace engineers, and technical and scientific PhD level experts.
- Aerospace education is in high demand and enrollment is limited by current facility capacity.
- Fall 2014 enrollment was 758 students—516 undergraduate and 242 graduate—and is projected to increase 10 percent and 20 percent, respectively, to 857 overall by 2019 with the new facility.
- Occupancy—spring 2018.



Campus Civil Flood Mitigation, Phase 1 of 2

FY16 REQUEST: \$644,579

This project provides flood mitigation work in 23 locations across campus to accommodate significant rainfall or floodwaters. It includes placement of inlets, flood doors, sump pumps and surface re-grading.

Campus Fire Sprinkler Upgrades, Phase 2 of 5

FY16 REQUEST: \$709,780

This project provides fire sprinklers in the McKenna and Economics buildings to minimize the risk to life, health and property, and to optimize continuity of operations.

SLHS Fire Sprinkler and HVAC Renovation, Phase 1 of 2

FY16 REQUEST: \$1,002,345

This project provides fire sprinklers in the Speech, Language and Hearing Services building to minimize the risk to life, health and property, and to optimize continuity of operations. The project also provides renovation to the HVAC system by supplying chilled water from the central plant for cooling, replacement of the air handler and modifying the heating system. Currently only portions of the building have chilled air supply.

ECME Upgrade HVAC and Controls for IAQ, Phase 2 of 2

FY16 REQUEST: \$1,167,768

This project will support work on the air distribution system, testing and balancing, laboratory pressure controls, exhaust system improvements, emergency showers and eye washes, and the reconfiguration of the laboratory return air for the remaining portions yet to be completed. Phase 2 areas of work will include areas of the first basement and first and second floors of Mechanical Engineering.

MUEN HVAC Control Upgrades, Phase 1 of 4

FY16 REQUEST: \$648,450

This project provides for the replacement of variable air volume boxes throughout the building, removal of pneumatic controls and placement of direct digital controls for the HVAC system, duct sealing and replacement of a rooftop air handler.

FY15-16 CONTROLLED MAINTENANCE PROJECT SUMMARIES

Science Learning Lab HVAC Improvements, Phase 1 of 1

FY16 REQUEST: \$1,190,512

This project will modify the building HVAC systems by providing the following: supply air conditioning to the north perimeter first and second floors (currently no cooling provided), replace the existing DX rooftop unit, addition of a second chiller, replace the multizone air handler in the basement with a new rooftop air handler, add infrastructure to provide cooling for a future modular cleanroom in the high bay area, and replace the three existing boilers with high-efficiency boilers. The project will also provide ducted ventilation to some labs that are currently not ventilated.

Science Learning Lab Electrical Services Upgrade, Phase 1 of 1

FY16 REQUEST: \$817,685

This project provides for the removal and replacement of existing switchgear, bus duct, and primary electrical wiring, and replacement of certain electrical panels for code compliance.



Be Boulder.



University of Colorado **Boulder**